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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/810,598	03/29/2004	Toshio Masuda	520.39649CX3	9708	
20457	7590 05/06/2005		EXAMINER		
	LI, TERRY, STOUT	KACKAR, RAM N			
1300 NORT	H SEVENTEENTH STR	ART UNIT	PAPER NUMBER		
ARLINGTO	N, VA 22209-3873		1763		
			DATE MAILED: 05/06/200		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicar	nt(s)	$\dashv$
		10/810,598	MASUDA	A ET AL.	
Office Action Summary		Examiner	Art Unit	<del></del>	
		Ram N. Kackar	1763		
	of this communication		sheet with the correspond	dence address	
Period for Reply					
<ul> <li>If NO period for reply is specified a</li> <li>Failure to reply within the set or ex</li> </ul>	THIS COMMUNICATION of 37 Cf alling date of this communication ove is less than thirty (30) days, above, the maximum statutory pathous, the maximum statutory pathous after the letter than three months after the	ON. FR 1.136(a). In no event, howe n. a reply within the statutory min eriod will apply and will expire s statute, cause the application to		idered timely. ate of this communication. § 133).	
Status				:	
1)⊠ Responsive to com	munication(s) filed on	24 January 2005.			
2a) This action is FINAL	· · · · · · · · · · · · · · · · · · ·	This action is non-fina	l.	:	-
3) Since this application	on is in condition for all	owance except for for	mal matters, prosecution	as to the merits is	1
closed in accordance	e with the practice und	der <i>Ex par</i> te Quayle, 1	935 C.D. 11, 453 O.G. 2	13.	
Disposition of Claims					
4)⊠ Claim(s) <u>1-23</u> is/are	nending in the applica	ation			
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5) Claim(s) is/a		idiami mom oonoidon	MOII.		
6)⊠ Claim(s) <u>1-23</u> is/are					
7) Claim(s) is/a	<del>-</del>				- 1
8) Claim(s) are	subject to restriction a	nd/or election requirer	nent.		
application Papers					
9)☐ The specification is o	objected to by the Exa	miner			
10)⊠ The drawing(s) filed	•		r b)□ objected to by the	Examiner	
			n abeyance. See 37 CFR 1		
			drawing(s) is objected to.	* *	
11) The oath or declarat				- •	
riority under 35 U.S.C. § 11	19				
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12)⊠ Acknowledgment is a a)□ All b)□ Some *		eigh phonty under 35	U.S.C. 9 119(a)-(d) or (f)		
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Notice of References Cited (PT	O-892)	4) 🔲	nterview Summary (PTO-413)	•	
Notice of Draftsperson's Patent Information Disclosure Stateme	t Drawing Review (PTO-948 ent(s) (PTO-1449 or PTO/SE	3/08) 5) 🔲	Paper No(s)/Mail Date  Notice of Informal Patent Applic	ation (PTO-152)	
Paper No(s)/Mail Date		6) 📙 (	Other:	·	
Patent and Trademark Office OL-326 (Rev. 1-04)	Offic	ce Action Summary	Part of Pa	per No./Mail Date 0405	70

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

1. Claims 1-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Moslehi (US 5846883) in view of Grimbergen et al (US 6390019).

Moslehi discloses a vacuum (Abstract) plasma processing chamber (Fig 11), substrate holder (Fig 22) to hold a substrate for processing, electric conductive member (Fig 2 172-174 and Fig 8 328) supplied with electric power to generate plasma (Fig 6 313), a plate disposed above the sample loading surface coupled to electric conductive member (Fig 1 106), a cylindrical shaped optical transmitter mounted on the conductor member and plate (110) to provide optical view port for multitude of sensors (Col 4 lines 40-54), a holder to hold the optical transmitter with a seal for the optical transmitter (200).

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Moslehi does not disclose that the light from the processing chamber for the purpose of reaching the sensor at the back of the optical transmitter goes through at least one through hole.

Grimbergen et al disclose a process chamber (Fig 1-35) and disclose optical transmitter (135) with through holes to allow light for the sensor (Fig 1-160 or Fig 2-25) to pass through holes (145), which allow the light to reach the sensor and reduce the possibility of deposition on the phase of the optical transmitter (Col 8 lines 35-43). Grimbergen et al teach that the aspect ratio of through holes depends upon particular process (Col 10 line 65- Col 11 line 2) and could be 12 (Col 10 lines 1-9).

Therefore it would have been obvious for one of ordinary skill in the art at the time of invention to have through holes in front of optical transmitter in order to have a longer use before cleaning or replacement by reducing the possibility of unwanted deposition.

### Response to Amendment

Applicant's arguments filed 1/24/2005 have been fully considered but they are moot in view of new grounds of rejection.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US 6159297 to Herchen et al discloses optical transmitter mounted through the conductive members to generate plasma.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR. system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ram Kackar